CLAIMS

What is claimed is:

1   1.   A method comprising:

2   receiving, from a client computer, a point-to-point request message;

3   converting the point-to-point request message to a subject-based message;

4   multicasting the subject-based message;

5   receiving a response to the subject-based message;

6   converting the response to the subject-based message to a point-to-point response

7   message; and

8   transmitting the point-to-point response message back to the client computer.

1   2.   The method of claim 1, wherein the converting includes assigning a reply subject

2   to the subject-based message.

1   3.   The method of claim 1, wherein the point-to-point request message is based on

2   HyperText Transfer Protocol.

1   4.   The method of claim 1, wherein the subject-based message denotes a group of

2   subscribers to receive the subject-based message.

1   5.   The method of claim 4, wherein the group of subscribers to receive the subject-

2   based message can dynamically change.

1   6.   The method of claim 1, wherein the subject-based message is independent of an

2   identity of a recipient.

1   7.   The method of claim 1, wherein the subject-based message is independent of a

2   protocol used by a recipient of the subject-based message.

1   8.   A method for processing a point-to-point request based on HyperText Transfer

2   Protocol (HTTP), the method comprising:

3   receiving, from a client computer, the point-to-point request;

4   converting the point-to-point request to a subject-based message;

5   multicasting the subject-based message to a number of application servers across

6   a network;

7   receiving a response to the subject-based message from one of the number of

8   application servers;

9   extracting content from the response;

10   generating a point-to-point response using the content from the response; and

11   sending the point-to-point response back to the client computer.

1   9.   The method of claim 8, wherein the converting includes assigning a reply subject

2   to the subject-based message.

1   10.   The method of claim 8, wherein the subject-based message denotes a group of

2   subscribers to receive the subject-based message.

1   11.   The method of claim 10, wherein the group of subscribers to receive the subject-

2   based message can dynamically change.

1   12.   The method of claim 10, wherein the subject-based message is independent of an

2   identity of a recipient.

1   13.   The method of claim 10, wherein the subject-based message is independent of a

2   protocol used by a recipient of the subject-based message.

1   14.   A machine-readable medium that provides instructions, which when executed by

2   a processor, cause said processor to perform operations comprising:

3   receiving, from a client computer, a point-to-point request message;

4   converting the point-to-point request message to a subject-based message;

5   multicasting the subject-based message;

6   receiving a response to the subject-based message;

7   converting the response to the subject-based message to a point-to-point response

8   message; and

9   transmitting the point-to-point response message back to the client computer.

1   15.   The machine-readable medium of claim 14, wherein the converting includes

2   assigning a reply subject to the subject-based message.

1   16.   The machine-readable medium of claim 14, wherein the point-to-point request

2   message is based on HyperText Transfer Protocol.

1   17.   The machine-readable medium of claim 14, wherein the subject-based message

2   denotes a group of subscribers to receive the subject-based message.

1   18.   The machine-readable medium of claim 17, wherein the group of subscribers to

2   receive the subject-based message can dynamically change.

1   19.   The machine-readable medium of claim 14, wherein the subject-based message is

2   independent of an identity of a recipient.

1   20.   The machine-readable medium of claim 14, wherein the subject-based message is

2   independent of a protocol used by a recipient of the subject-based message.

1   21.   A machine-readable medium that provides instructions for processing a point-to-

2   point request based on HyperText Transfer Protocol (HTTP, which when executed by a

3   processor, cause said processor to perform operations comprising:

4   receiving, from a client computer, the point-to-point request;

5   converting the point-to-point request to a subject-based message;

6   multicasting the subject-based message to a number of application servers across

7   a network;

8   receiving a response to the subject-based message from one of the number of

9   application servers;

10   extracting content from the response;

11   generating a point-to-point response using the content from the response; and

12   sending the point-to-point response back to the client computer.

1   22.   The machine-readable medium of claim 21, wherein the converting includes   ·

2   assigning a reply subject to the subject-based message.

1   23.   The machine-readable medium of claim 21, wherein the subject-based message

2   denotes a group of subscribers to receive the subject-based message.

1   24.   The machine-readable medium of claim 23, wherein the group of subscribers to

2   receive the subject-based message can dynamically change.

1   25.   The machine-readable medium of claim 21, wherein the subject-based message is

2   independent of an identity of a recipient.

1   26.   The machine-readable medium of claim 21, wherein the subject-based message is

2   independent of a protocol used by a recipient of the subject-based message.

1   27.   An application server coupled to a network, the application server comprising:

2   a database having data;

3   a processor coupled to the database, the processor to process subject-based

4   messages received from a server, the subject-based messages to include requests for

5   data content wherein the subject-based messages are generated from point-to-point

6   messages received from a client computer, the processing including:

7   listening for a subject-based request message being received from the

8   network;

9   extracting portions of the data in the database based on the request in the

10   subject-based message;

11   generating a subject-based response message that includes the portions of

12   the data extracted from the database; and

13   transmitting the subject-based response message back to the server.

1   28.   The application server of claim 27, wherein the point-to-point request message is

2   based on HyperText Transfer Protocol.

1   29.   The application server of claim 27, wherein the subject-based response message

2   includes a reply subject assigned by the server.

1   30.   The application server of claim 27, wherein the subject-based message is

2   independent of an identity of a recipient.

1   31.   The application server of claim 27, wherein the subject-based message is

2   independent of a protocol used by a recipient of the subject-based message.

1   32.   A system comprising:

2   a server coupled to a network, the server to receive a point-to-point request

3   message based on HyperText Transfer Protocol (HTTP) from a web browser and to

4   process the point-to-point request message, the processing of the point-to-point request

5   message including:

6   converting the point-to-point request message to a subject-based message;

7   multicasting the subject-based message;

8   receiving a response to the subject-based message;

9   converting the subject-based message to a point-to-point response

10 message; and

11   transmitting the point-to-point response message back to the web browser;

12   and

13   a number of application servers coupled to the network, each of the number of

14 application servers comprising:

15   a database having data;

16   a processor coupled to the database, the processor to process the subject-

17   based message received from the server, the processing of the subject-based message

18   including:

19   listening for a subject-based request message being received from

20   the network;

21   extracting portions of the data in the database based on the request

22   in the subject-based message;

23   generating a subject-based response message that includes the

24   portions of the data extracted from the database; and

25   transmitting the subject-based response message back to the server.

1   33.   The system of claim 32, further comprising a distributed queue, the distributed

2   queue to receive the subject-based message from the server, wherein one of the number

3   of application servers schedules which of the application servers are to process the

4   subject-based message received in the distributed queue.

1   34.   The system of claim 32, wherein the number of application servers can

2   dynamically change.

1   35.   The system of claim 32, wherein the subject-based message is independent of a

2   protocol used by the number of application servers.